

10/506699 506,699

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



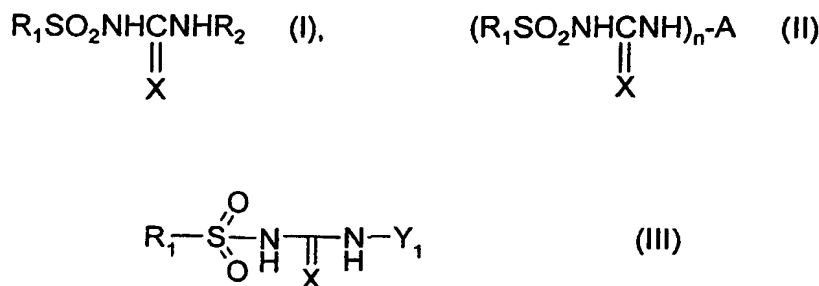
(43) International Publication Date  
12 September 2003 (12.09.2003)

PCT

(10) International Publication Number  
**WO 03/074285 A1**

- (51) International Patent Classification<sup>7</sup>: **B41M 5/30**
- (21) International Application Number: PCT/EP03/01900
- (22) International Filing Date: 25 February 2003 (25.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02405170.8 6 March 2002 (06.03.2002) EP
- (71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS HOLDING INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **HENSHALL, John, Barry** [GB/GB]; 61 Queens Road, Urmston, Manchester M41 9HF (GB). **TAYLOR, James, Philip** [GB/GB]; 61 Oxford Road, Macclesfield, Cheshire SK11 8JE (GB).
- (74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDING INC.**; Patentabteilung, Klybeckstrasse 141, CH-4057 Basel (CH).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEAT SENSITIVE RECORDING MATERIAL



(57) Abstract: Composition for heat sensitive recording material a) a colour former compound, b) a developer, which is different from the stabilizer used as component c), c) a stabilizer, selected from the group consisting of compounds having the formulae (I), (II) and (III), wherein the amount of the stabilizer is less than 5% by weight, based on the total weight of the composition, and a heat sensitive recording material

comprising this composition and the use of this composition as heat-sensitive coloured image-forming layer in heat-sensitive materials.

WO 03/074285 A1

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/E 3/01900

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 B41M5/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 B41M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05, 30 June 1995 (1995-06-30) & JP 07 047772 A (NEW OJI PAPER CO LTD), 21 February 1995 (1995-02-21) abstract	1-3
X	& JP 07 047772 A 21 February 1995 (1995-02-21) paragraph '0012! - paragraph '0014! paragraph '0016! * examples 4-8, comparative example 3 *	1-3
A	WO 01 72527 A (CIBA SC HOLDING AG ;BOARDMAN KENNETH ALFRED (GB); TAYLOR JAMES PHI) 4 October 2001 (2001-10-04) page 2, paragraph 3 -page 3, paragraph 3 ----- -/--	1-3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 June 2003

Date of mailing of the international search report

01/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Markham, R

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/E 3/01900

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 738 610 A (NEW OJI PAPER CO LTD) 23 October 1996 (1996-10-23) page 3, line 40 -page 5, line 28 -----	1-3

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP03/01900

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 07047772	A	21-02-1995	NONE	
WO 0172527	A	04-10-2001	AU 6013701 A CA 2401355 A1 CZ 20023546 A3 WO 0172527 A1 EP 1268215 A1	08-10-2001 04-10-2001 12-02-2003 04-10-2001 02-01-2003
EP 0738610	A	23-10-1996	JP 6183157 A JP 3257121 B2 JP 6255262 A EP 0738610 A1 EP 0792755 A1 DE 69318953 D1 DE 69318953 T2 DE 69319257 D1 DE 69319257 T2 DE 69322105 D1 DE 69322105 T2 EP 0604832 A2 US 5612280 A	05-07-1994 18-02-2002 13-09-1994 23-10-1996 03-09-1997 09-07-1998 19-11-1998 23-07-1998 07-01-1999 17-12-1998 01-04-1999 06-07-1994 18-03-1997